

Abstract:

Viscometer (80) with a sample cup (42) rotatable by a pulley (26) and a timing belt (30) to shear a tested fluid thus imparting torque to a bob (44) mounted on a shaft (10) supported via a frictionless bearing (58), an optical distance sensor assembly (12) measures the distance to an arm (70) which is connected to the top of shaft (10). This distance information is further converted to the viscosity of the tested fluid.